

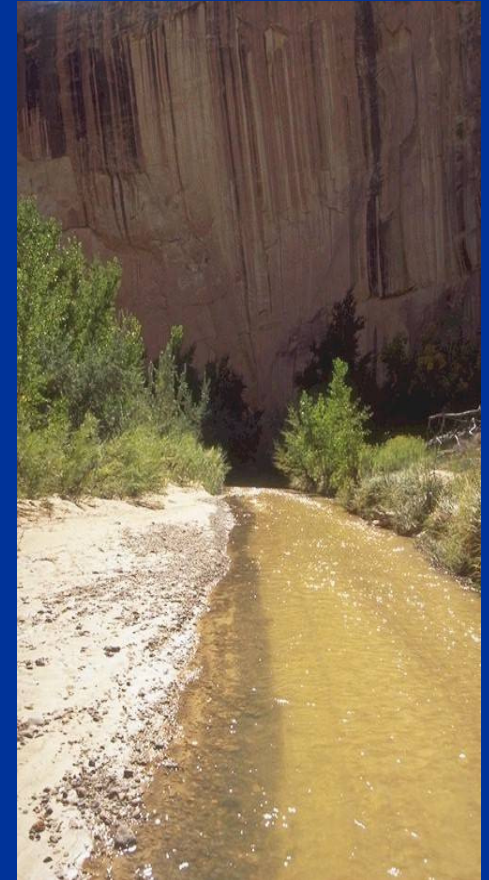


North Fork Virgin River E. coli Exceedances



Beneficial Use Designations

- Class 1C - Drinking Water
- Class 2A, 2B - Recreation
(e.g. swimming, boating, etc.)
- Class 3A, 3B, 3C, 3D - Wildlife Uses
- Class 4 - Agricultural Uses



N Fk Virgin River and tributaries 1C, 2A, 3A, 4

Historical N Fk Exceedances

- Zion NPS reconnaissance sampling in 2000 and 2001
- Summer sampling 2005-current



Hot Sample July 16, 2009 at WSA Bdry

- >2,417 MPN
CFU/100ml
- Acute (single sample)
standard is 409 MPN
(2A)
- Compliance based on 5
samples in 30-day
period



Water Contamination

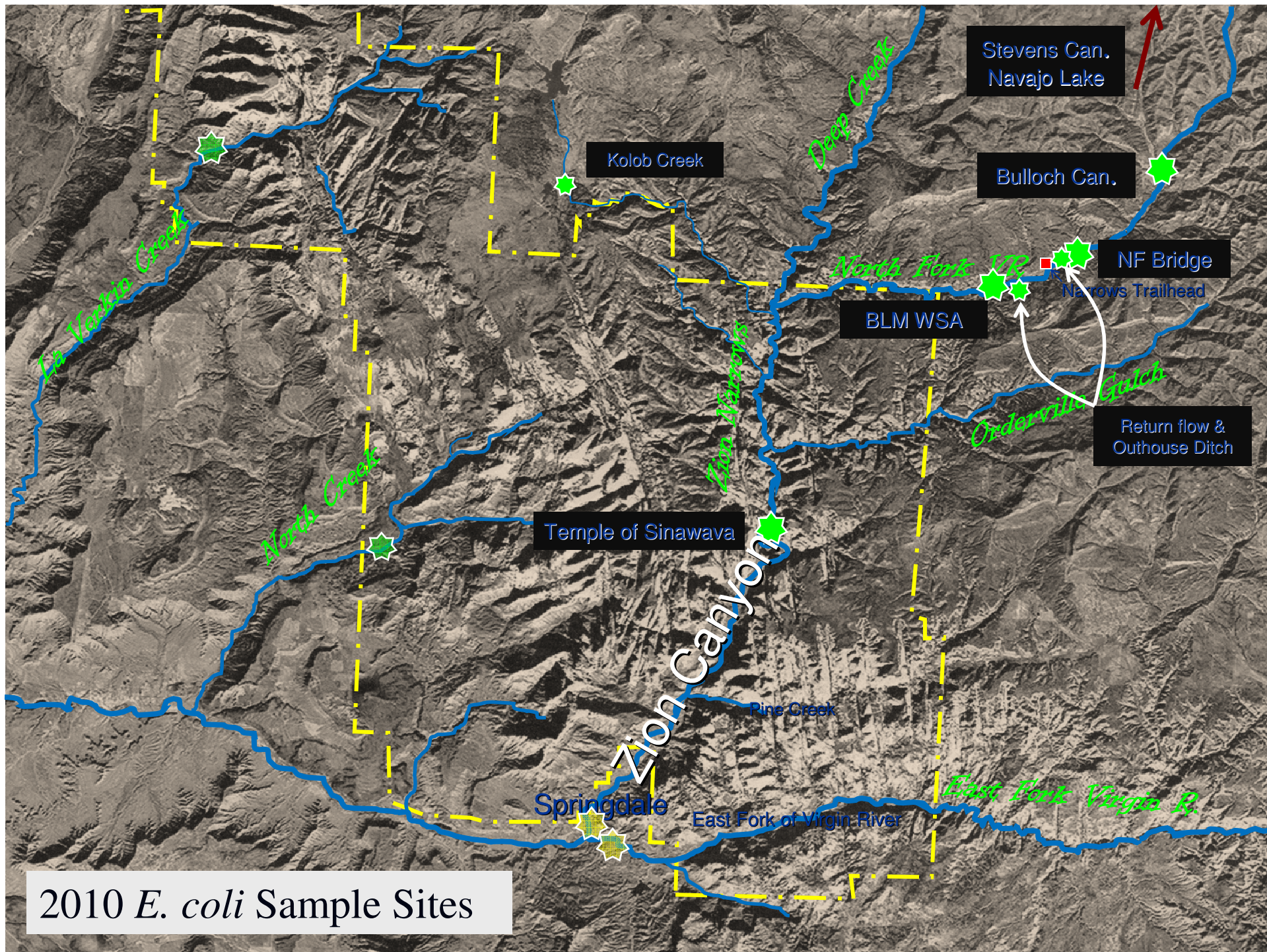
The water in the North Fork of the Virgin River between the Chamberlain's Ranch Trailhead and Deep Creek is unsafe for human ingestion.

Drinking water, filtering water, and swimming are unsafe.

Please contact the Zion NP Backcountry Desk if you have question. 435-772-0170.

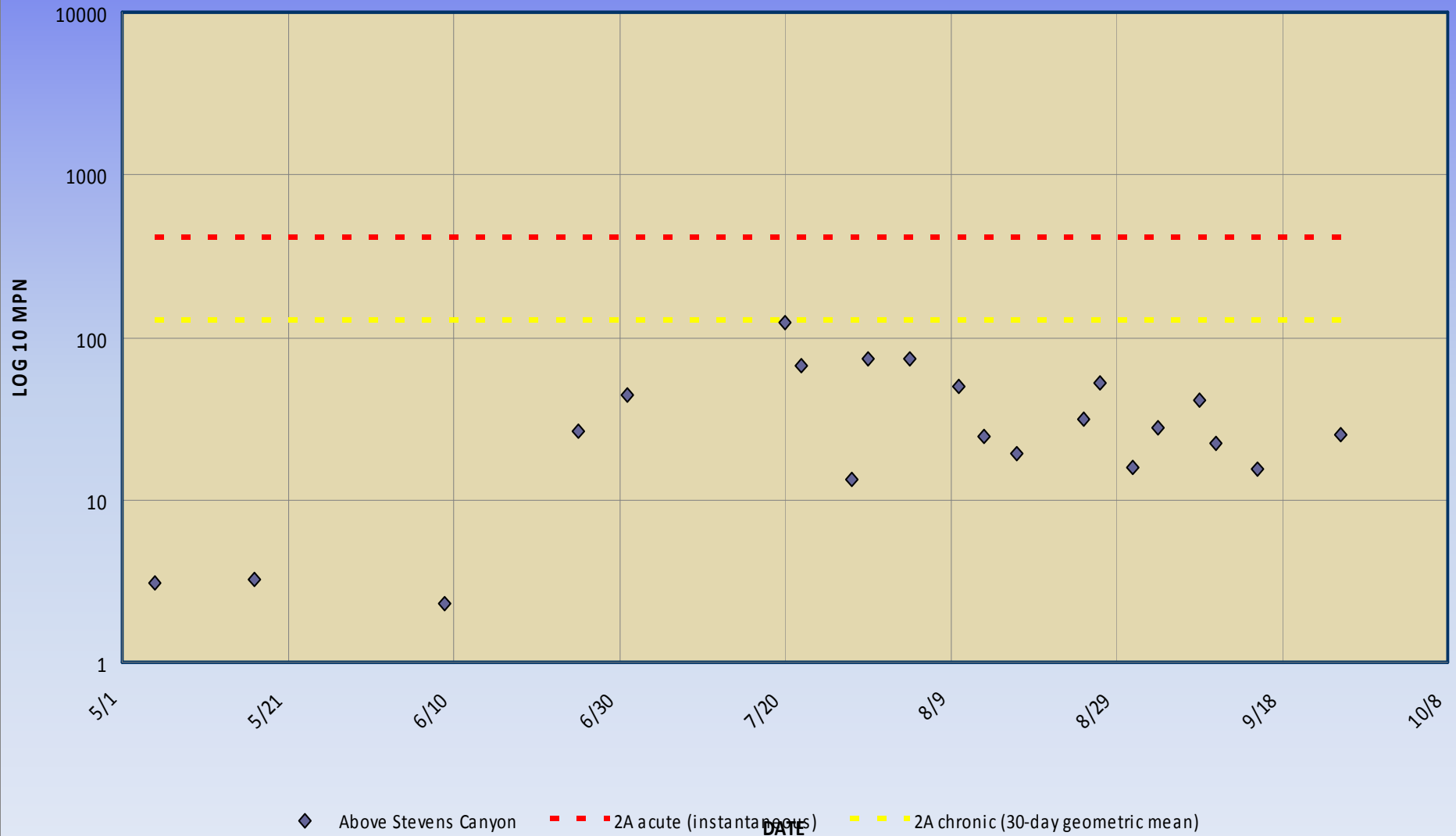


**\$100 citation and/or mandatory court
appearance for violation, 36 CFR 1.5(f)**



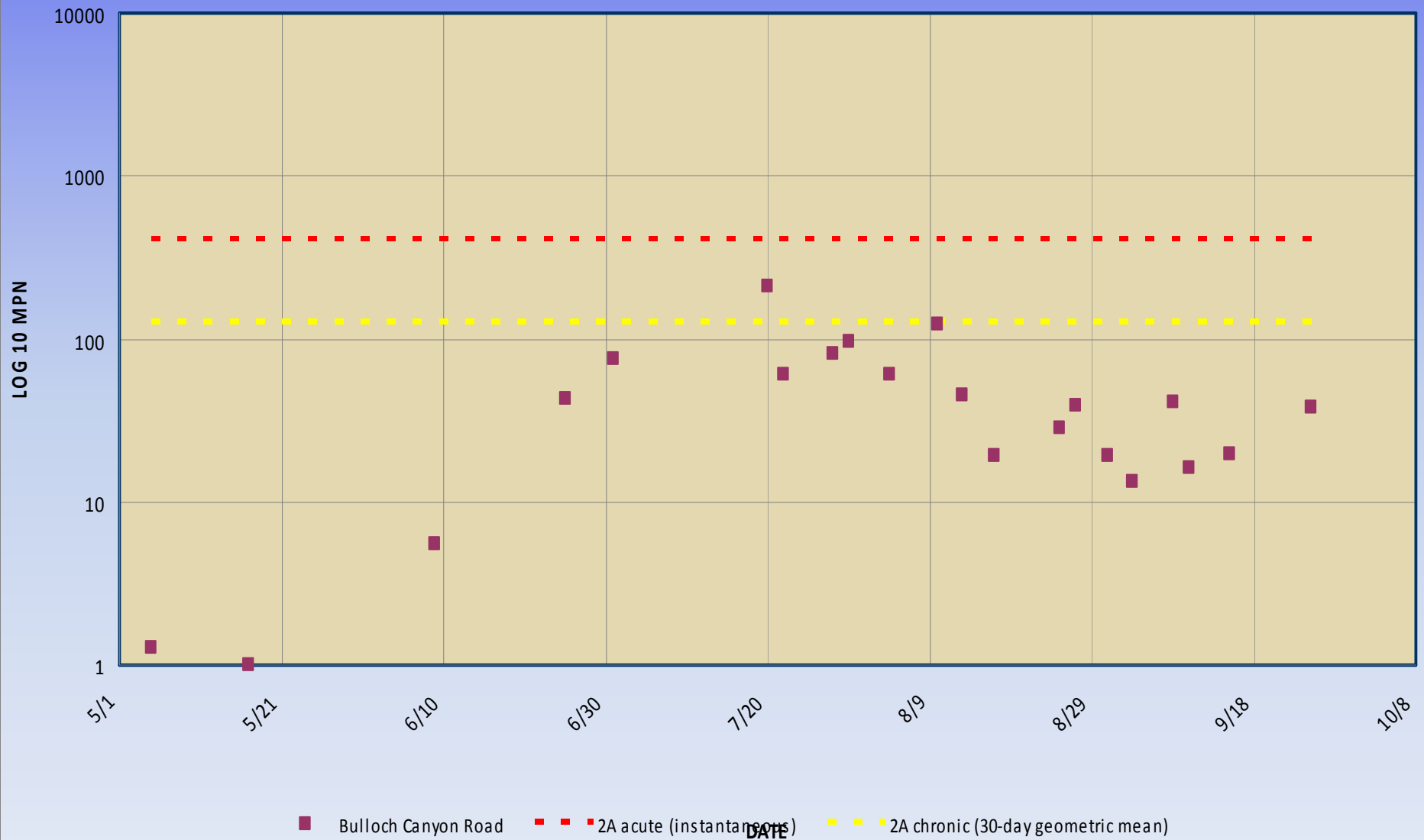
NFVR above Stevens Canyon

GEOMETRIC MEANS OF ALL SAMPLES, AB STEVENS CANYON, 2010



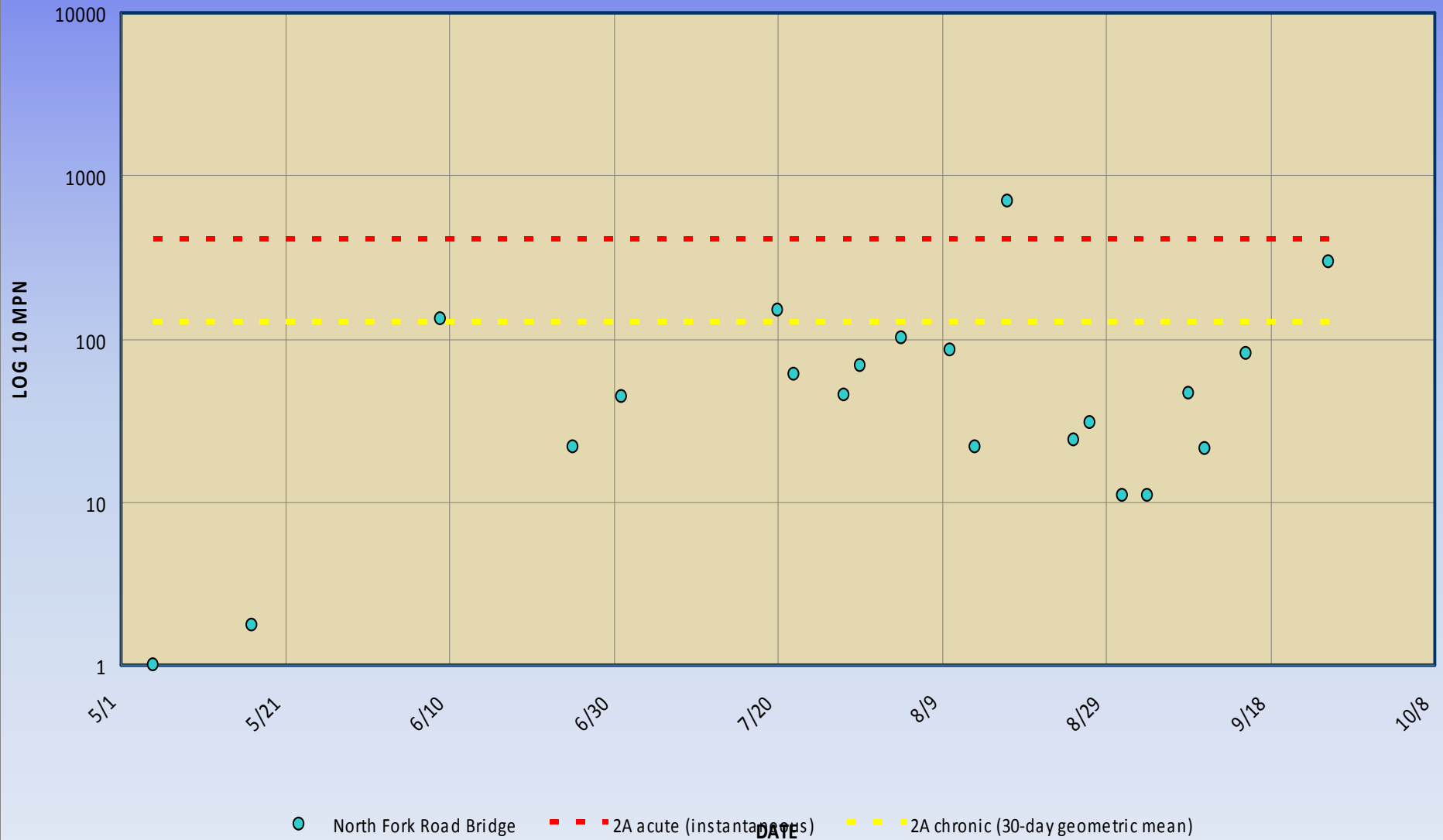
NFVR at Bulloch Canyon

GEOMETRIC MEANS OF ALL SAMPLES, BULLOCH, 2010



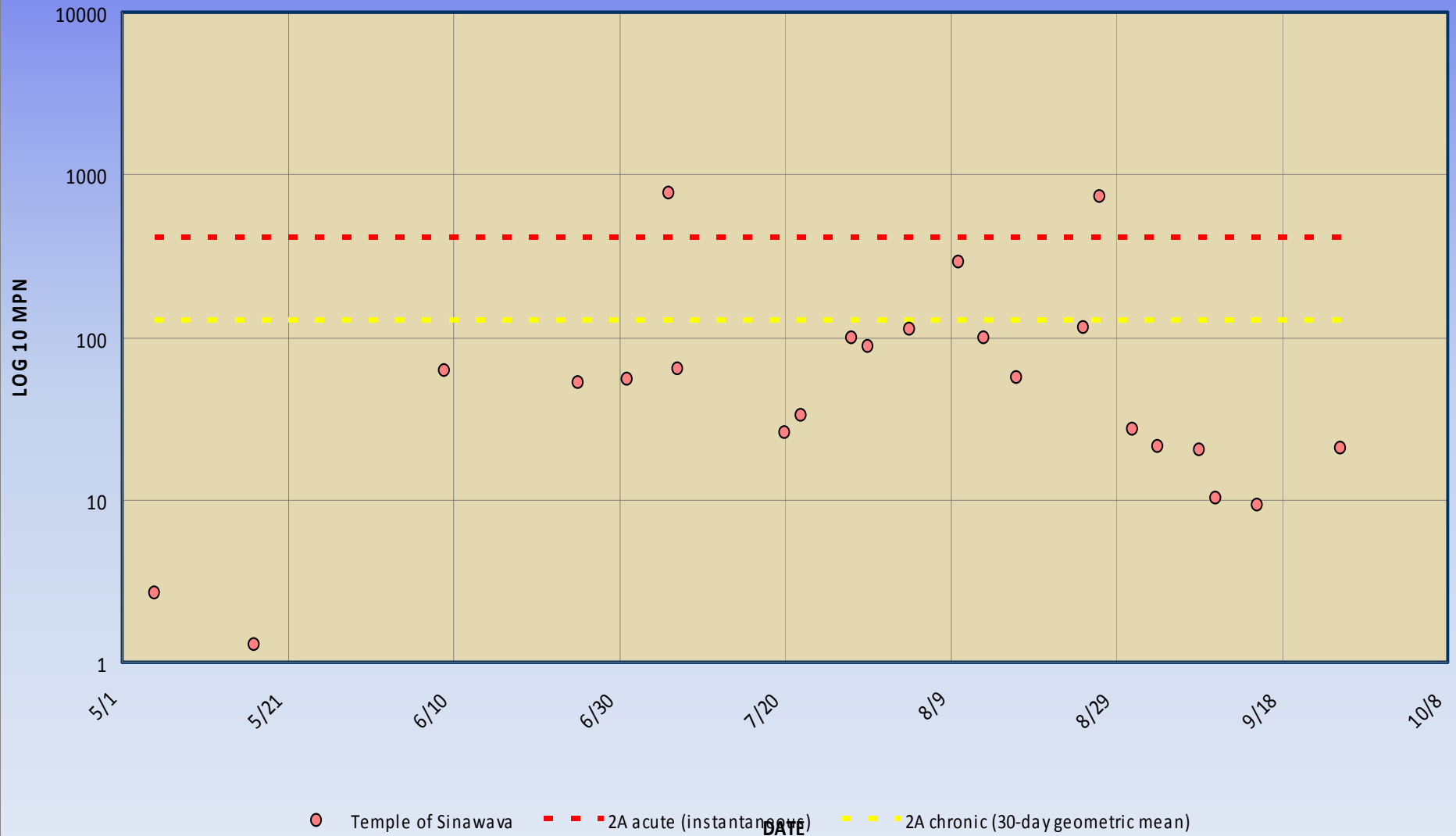
NFVR at N Fk Bridge

GEOMETRIC MEANS OF ALL SAMPLES, N FK BRIDGE, 2010



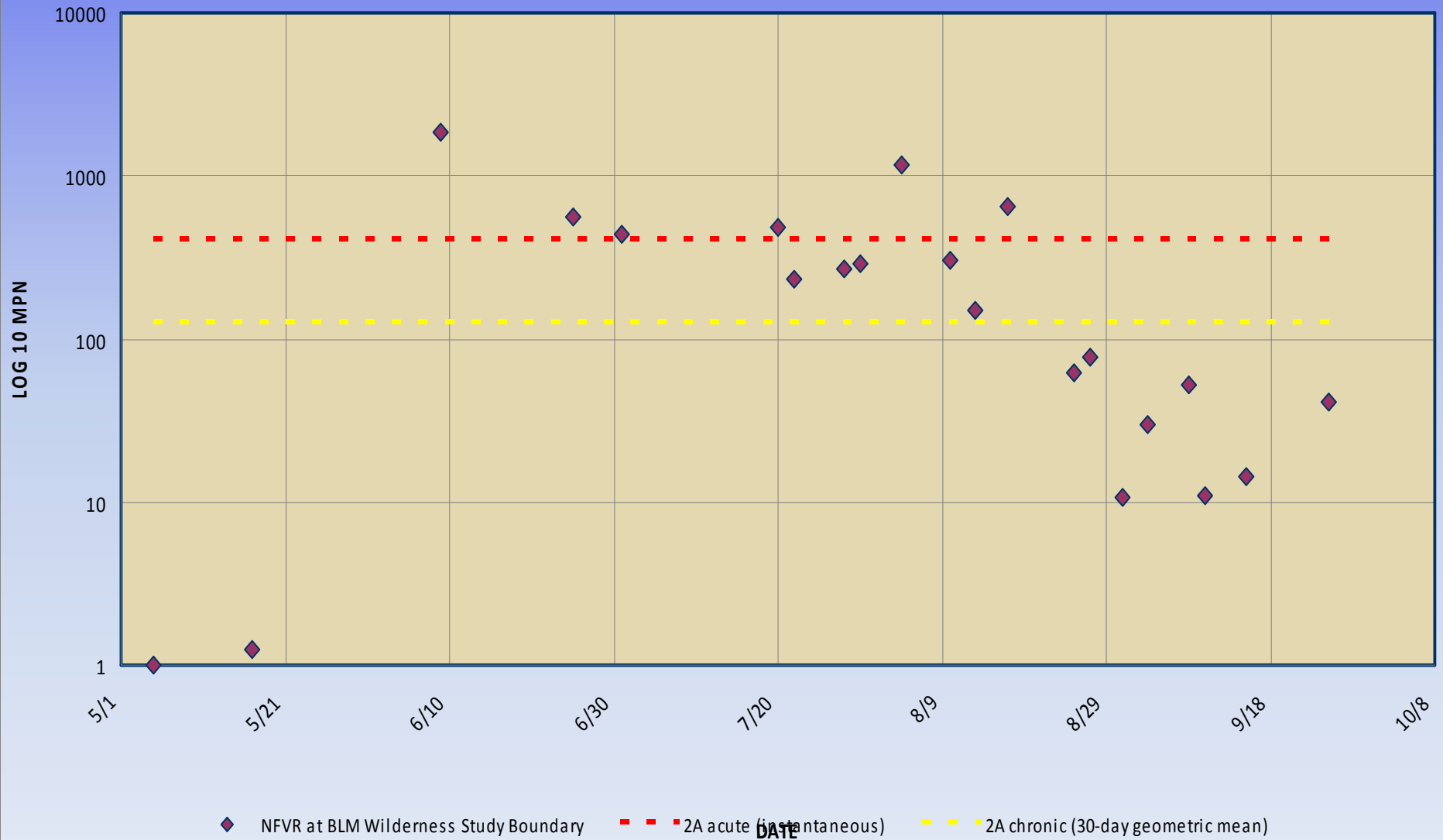
NFVR at Temple of Sinawava

GEOMETRIC MEANS OF ALL SAMPLES, TEMPLE, 2010



NFVR at WSA Boundary

GEOMETRIC MEANS OF ALL SAMPLES, WSA, 2010

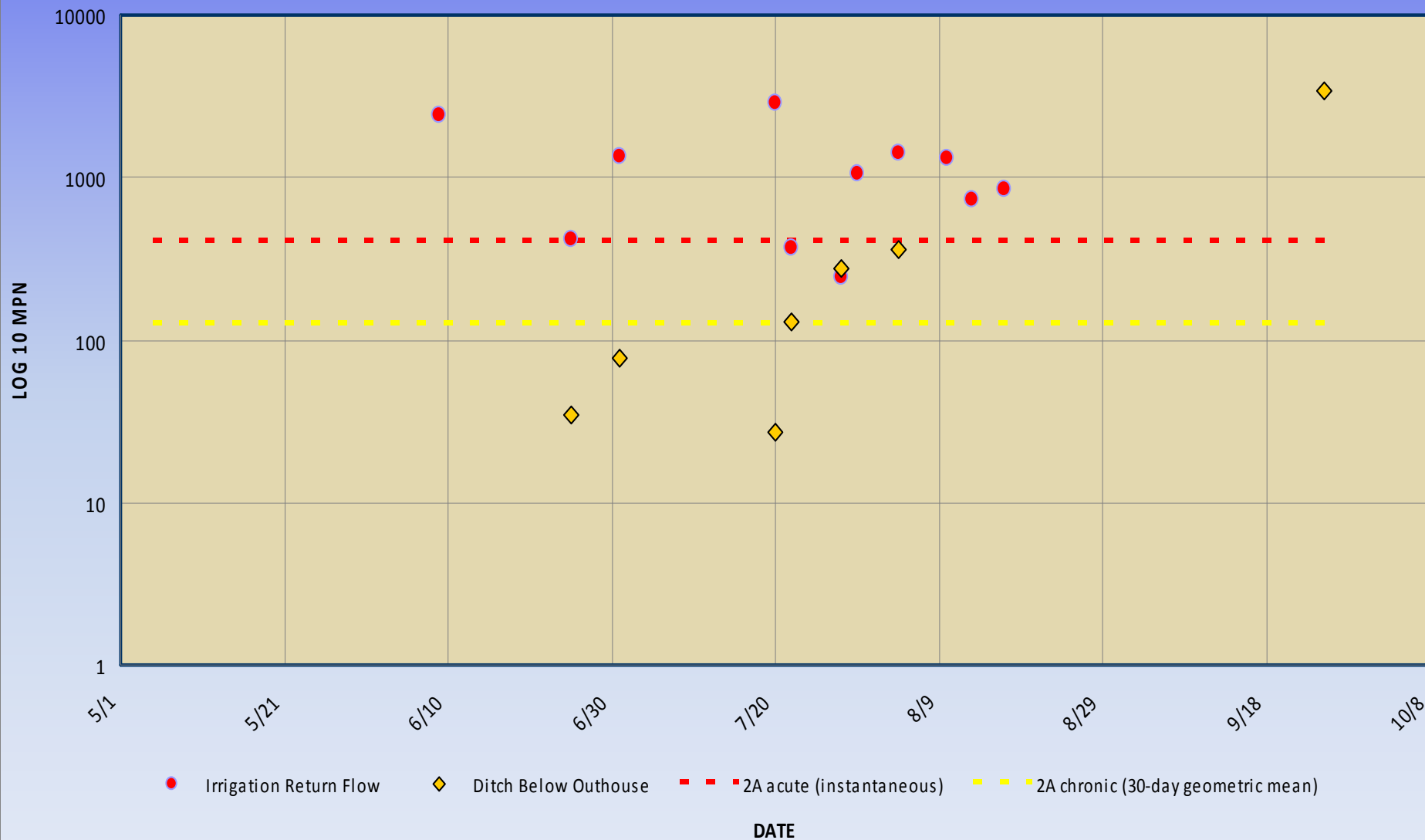


Irrigation Return Flows and Outhouse Ditch



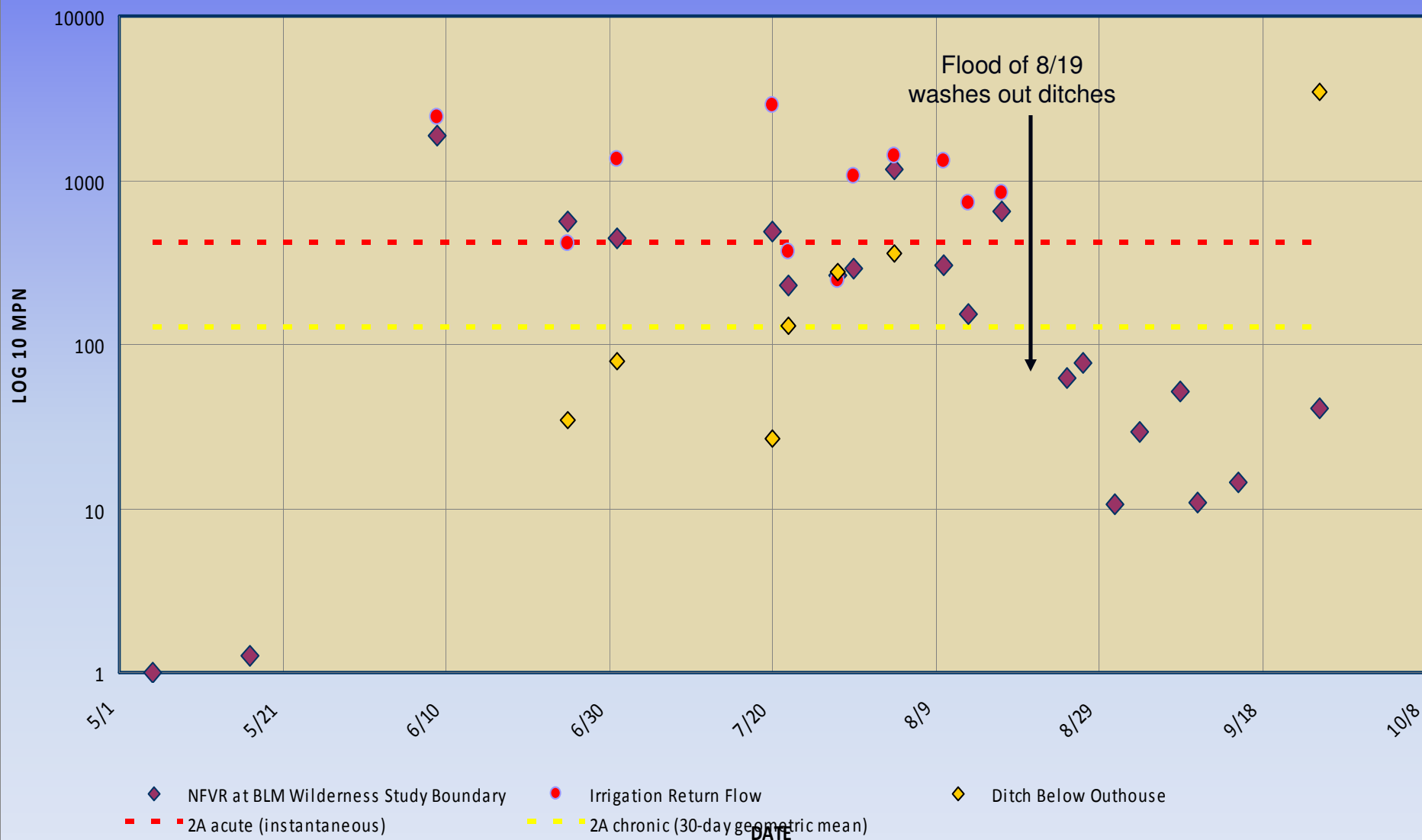
Irrigation Return Flows and Outhouse Canal

GEOMETRIC MEANS OF ALL SAMPLES, RETURN FLOW AND OUTHUSE DITCH, 2010



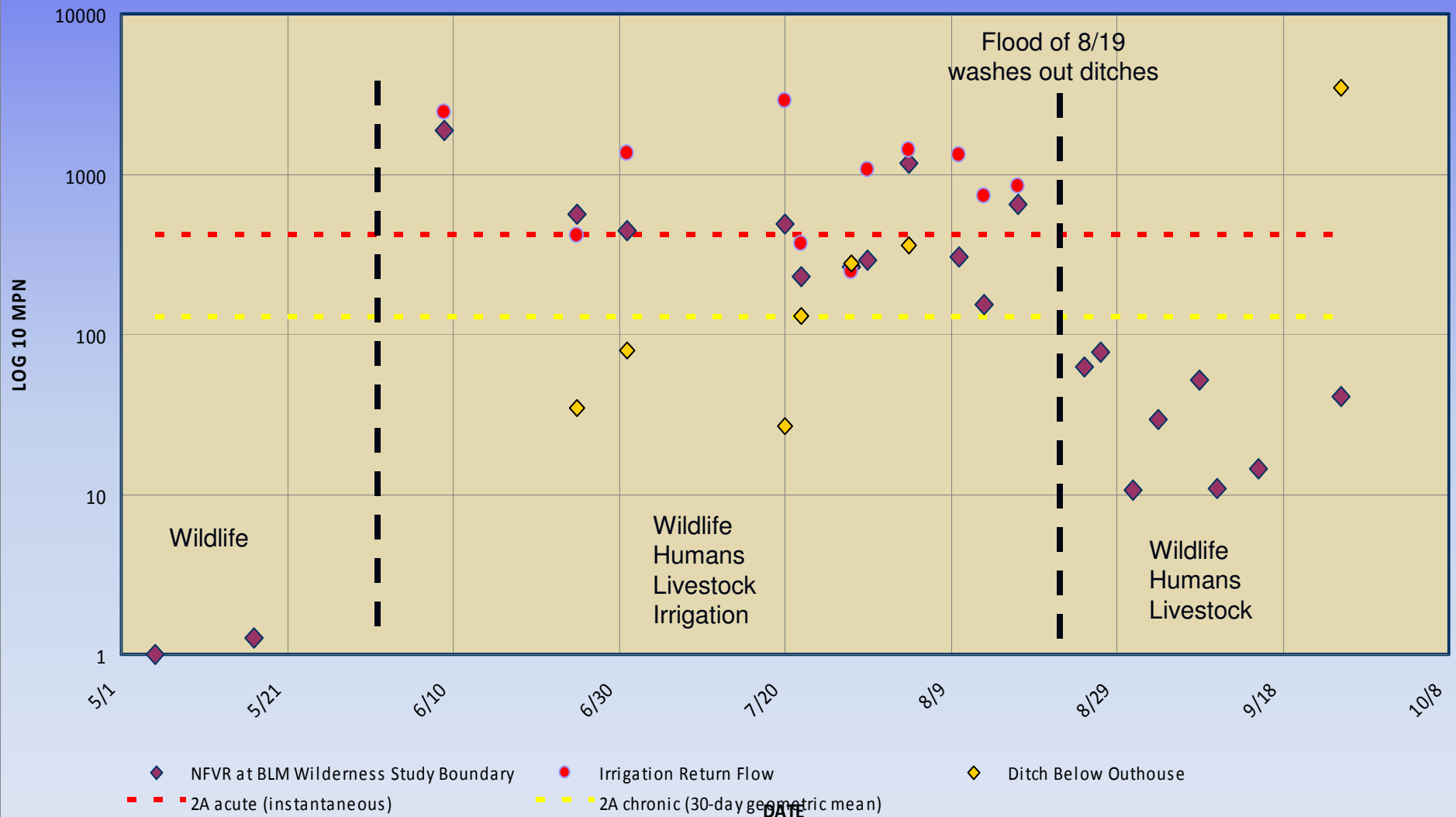
WSA, Irrigation Return Flows and Outhouse Canal

WSA, Irrigation Return Flow, and Outhouse Dirch Sites, 2010



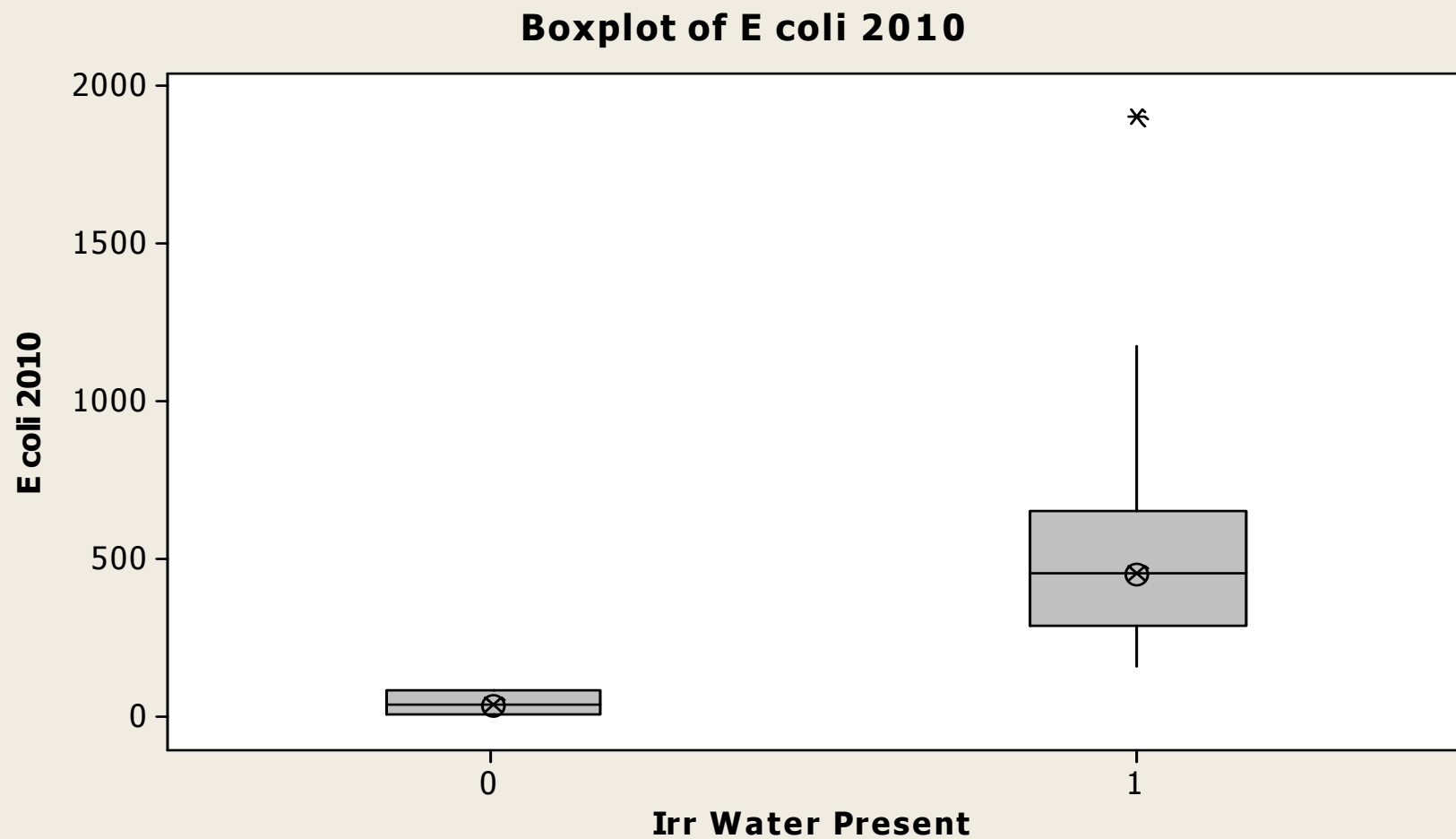
WSA, Irrigation Return Flows and Outhouse Canal

WSA, Irrigation Return Flow, and Outhouse Dirch Sites, 2010





E. Coli concentrations at WSA with and without return flow



Odds and ends...

Trailhead toilet



Outhouse over canal



Division of Water Quality

Next Steps

- Watershed Plan
- Additional data collection
- Explore funding options

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